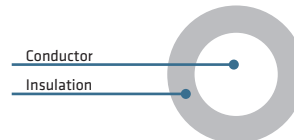




2kV P-Sun® Photovoltaic (PV) Wire

High Performance Low Voltage Wire for Solar Applications



Description

Single copper conductor with 2kV, cross-linked polyethylene (XLPE) insulation - RoHS compliant.

Ratings

- Photovoltaic - Type (PV)
- cUL Rated for RPVU90
- Type RHW-2
- -40°C
- FV-1 (Vertical Flame Rated)
- Sunlight Resistant
- For 90°C Wet or Dry Operation
- RoHS
- Direct Bury

Specifications

- UL 4703 for PV wires
- UL 854 for USE
- UL 44 for Thermoset Insulated Wires
- cUL - CSA C22.2 No. 271-11 -- Photovoltaic Cable
- ICEA S-73-532 (NEMA WC 57)
- ICEA S-95-658 (NEMA WC 70)

IDENTIFICATION: PRYSMIAN P-SUN® DRAKA PA (X) AWG (Y) XLPE 90C WET OR DRY (-40C) 1000V/2000V SUN RES (UL) E326502 PV WIRE DIRECT BURIAL OR RHW-2 2000V --- c(UL) RPVU90 XLPE (-40C) SR FT1 2000V RoHS. Sequential Footage Print

Notes: [X] is the size of the cable in AWG or kcmil
[Y] is the size of the cable in mm2

Design Parameters








CONDUCTOR: Class B & C compressed concentric strand soft drawn annealed copper or Class B & C compact concentric tinned-copper per ASTM or 8000 series compact aluminum.

INSULATION: High quality, heat and moisture resistant thermosetting cross-linked polyethylene (XLPE) insulation.

Options

- Compact Copper Conductor
- Compact Tinned-Copper Conductor
- 8000 Series Compact Aluminum Conductor
- CT available on 4/0 and larger per UL 44
- Colored insulation available upon request
- Colored stripes available upon request

Installations

- | | |
|--|--|
|  Direct Buried |  Conduit in Air |
|  Isolated in Air |  Wet Locations |
|  Dry Locations |  Industrial |
|  Underground Duct | |

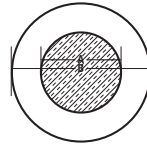


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2kV P-Sun[®] Photovoltaic (PV) Wire

High Performance Low Voltage Wire for Solar Applications



Circuit Conductor Size (AWG) (kcmil)	Average Insulation Thickness (mils)	Nominal Cable O.D. (in)	Nominal Cable weight (lbs/mft)	Maximum Pulling Tension (lb)		Minimum Bending Radius (in)		Ampacity in Air *	Ampacity in Earth **
				Conductor	Jacket	Training	Pulling	90°C	90°C
2kV Copper									
14 AWG (2.08 mm ²)	75	0.235	35	32	32	1.0	1.5	35	25
12 AWG (3.31 mm ²)	75	0.250	45	52	52	1.0	1.5	40	30
10 AWG (5.26 mm ²)	75	0.270	50	83	83	1.1	1.7	55	40
8 AWG (8.37 mm ²)	85	0.330	90	132	132	1.4	1.4	80	55
6 AWG (13.3 mm ²)	85	0.365	125	209	209	1.5	2.3	105	75
4 AWG (21.2 mm ²)	85	0.415	180	333	333	1.7	2.6	140	95
2 AWG (33.6 mm ²)	85	0.475	260	530	530	1.9	2.9	190	130
4/0 AWG (107 mm ²)	105	0.745	800	1692	1000	3.0	4.5	405	260
250 kcmil (127 mm ²)	120	.0825	950	1990	1000	3.3	5.0	455	290
300 kcmil (152 mm ²)	120	0.880	1130	2386	1000	3.6	5.4	500	320
350 kcmil (177 mm ²)	120	0.930	1270	2785	1000	3.8	5.7	570	350
500 kcmil (253 mm ²)	120	1.060	1780	3976	1000	5.3	8.0	700	430
600 kcmil (304 mm ²)	135	1.165	2115	4773	1000	5.9	8.9	780	475
750 kcmil (380 mm ²)	135	1.265	2600	5969	1000	6.4	9.6	855	535
2kV Aluminum									
6 AWG (13.3 mm ²)	85	0.355	70	155	155	1.5	2.3	85	55
4 AWG (21.2 mm ²)	85	0.400	95	250	250	1.7	2.6	115	75
2 AWG (33.6 mm ²)	85	0.470	125	391	391	1.9	2.9	150	100
1 AWG (42.4 mm ²)	105	0.530	170	496	496	2.2	3.3	175	115
1/0 AWG (53.5 mm ²)	105	0.570	195	627	627	2.3	3.5	205	135
2/0 AWG (67.4 mm ²)	105	0.610	230	791	791	2.5	3.8	235	150
3/0 AWG (85.0 mm ²)	105	0.655	275	996	996	2.7	4.1	270	175
4/0 AWG (107 mm ²)	105	0.710	325	1256	1000	2.9	4.4	315	205
250 kcmil (127 mm ²)	120	0.785	395	1492	1000	3.2	4.9	355	230
300 kcmil (152 mm ²)	120	0.835	455	1790	1000	3.4	5.1	395	260
350 kcmil (177 mm ²)	120	0.890	510	2088	1000	3.6	5.4	445	280
400 kcmil (203 mm ²)	120	0.925	570	2387	1000	3.7	5.6	480	305
500 kcmil (253 mm ²)	120	1.010	675	2982	1000	5.1	7.7	545	350
600 kcmil (304 mm ²)	135	1.110	825	3587	1000	5.6	8.4	615	385
750 kcmil (380 mm ²)	135	1.220	985	6000	1000	6.1	9.2	700	435
800 kcmil (405 mm ²)	135	1.250	1040	6400	1000	6.3	9.5	725	445
1000 kcmil (507 mm ²)	135	1.320	1250	8000	1000	6.6	9.9	845	500

PRODUCT NOTES:

The above dimensions are approximate and subject to normal manufacturing tolerances.

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*2014 NEC Table 310.15(B)(17) SINGLE INSULATED CONDUCTORS IN FREE AIR, AMBIENT 30°C.

**2014 NEC Table 310.15(B)(16) NOT MORE THAN THREE CURRENT-CARRYING CONDUCTORS IN RACEWAY, CABLE OR EARTH, AMBIENT 30°C.

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